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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/642,305	08/18/2003	Hongyong Zhang	740756-2646 1987	
22204	7590 08/30/2004		EXAMINER	
NIXON PEABODY, LLP			OWENS, DOUGLAS W	
401 9TH STREET, NW SUITE 900		ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20004-2128			2811	
*			DATE MAILED: 08/30/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/642,305	ZHANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Douglas W Owens	2811				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on					
2a) ☐ This action is FINAL . 2b) ☐ This	This action is FINAL . 2b) ☐ This action is non-final.					
. —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ⊠ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) ⊠ Claim(s) 1-12 is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 18 August 2003 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	a)⊠ accepted or b)☐ objected to drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	es have been received. Es have been received in Application rity documents have been receive (PCT Rule 17.2(a)).	on No. <u>07/704,103</u> . ed in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Priority

1. This application filed under former 37 CFR 1.60 lacks the necessary reference to the prior application. A statement reading "This is a divisional of Application No. 08/611,571, filed March 6, 1996...." should be entered following the title of the invention or as the first sentence of the specification. Also, the current status of all nonprovisional parent applications referenced should be included.

Specification

2. Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

3. The abstract of the disclosure is objected to because the final 2 lines of the abstract refer to purported merits of the invention. In line 6 of the abstract "lay r" should

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be replaced with --layers--, and in line 8, "b" should be replaced with --be--. Correction is required. See MPEP § 608.01(b).

4. A substitute specification excluding the claims is required pursuant to 37 CFR 1.125(a) because many words in the specification have one or more letters missing from. For example, in line 22 of page 1, "th" should be replaced with "the". In line 1 of page 2, "proc ss" should be replaced with "process", "possibl" should be replaced with "possible" and "in grated" should be replaced with "integrated". The specification is replete with this type of error.

A substitute specification must not contain new matter. The substitute specification must be submitted with markings showing all the changes relative to the immediate prior version of the specification of record. The text of any added subject matter must be shown by underlining the added text. The text of any deleted matter must be shown by strike-through except that double brackets placed before and after the deleted characters may be used to show deletion of five or fewer consecutive characters. The text of any deleted subject matter must be shown by being placed within double brackets if strike-through cannot be easily perceived. An accompanying clean version (without markings) and a statement that the substitute specification contains no new matter must also be supplied. Numbering the paragraphs of the specification of record is not considered a change that must be shown.

Claim Objections

5. Claims 1 - 12 are objected to because of the following informalities:

In line 10 of claim 1, "shifted to a lower wave number side from 520 cm⁻¹" should be replaced with a phrase, such as, --lower than 520 cm⁻¹--, lines 9 and 10 of claim 4 and line 10 of claim 7 should be similarly amended. As claimed it appears as if there is an active change that occurs to a characteristic of the semiconductor film. The specification only discloses that the number is lower when compared to normal single crystal silicon (520 cm⁻¹), which does not have the distorted lattice. As cited, the claim does not accurately describe the invention, since this is not an active change occurring in the semiconductor film.

In line 11 of claim 7, --with-- or --having-- should be inserted between "film" and "no".

Appropriate correction is required.

Allowable Subject Matter

6. The following is a statement of reasons for the indication of allowable subject matter upon resolving the above noted formal matters: The prior art does not teach, alone or in combination, a semiconductor device, "wherein a peak position of a Raman spectrograph is lower than 520 cm⁻¹ [shifted to a lower wavenumber side from 520 cm⁻¹].

Conclusion

7. This application is in condition for allowance except for the following formal matters:

The specification should be replaced and the claims amended as indicated above.

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Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas W Owens whose telephone number is 571-272-1662. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DWO

EDDIE LEE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800